

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639211

Luminaire Tested: GWS-SA5B-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10814.2 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

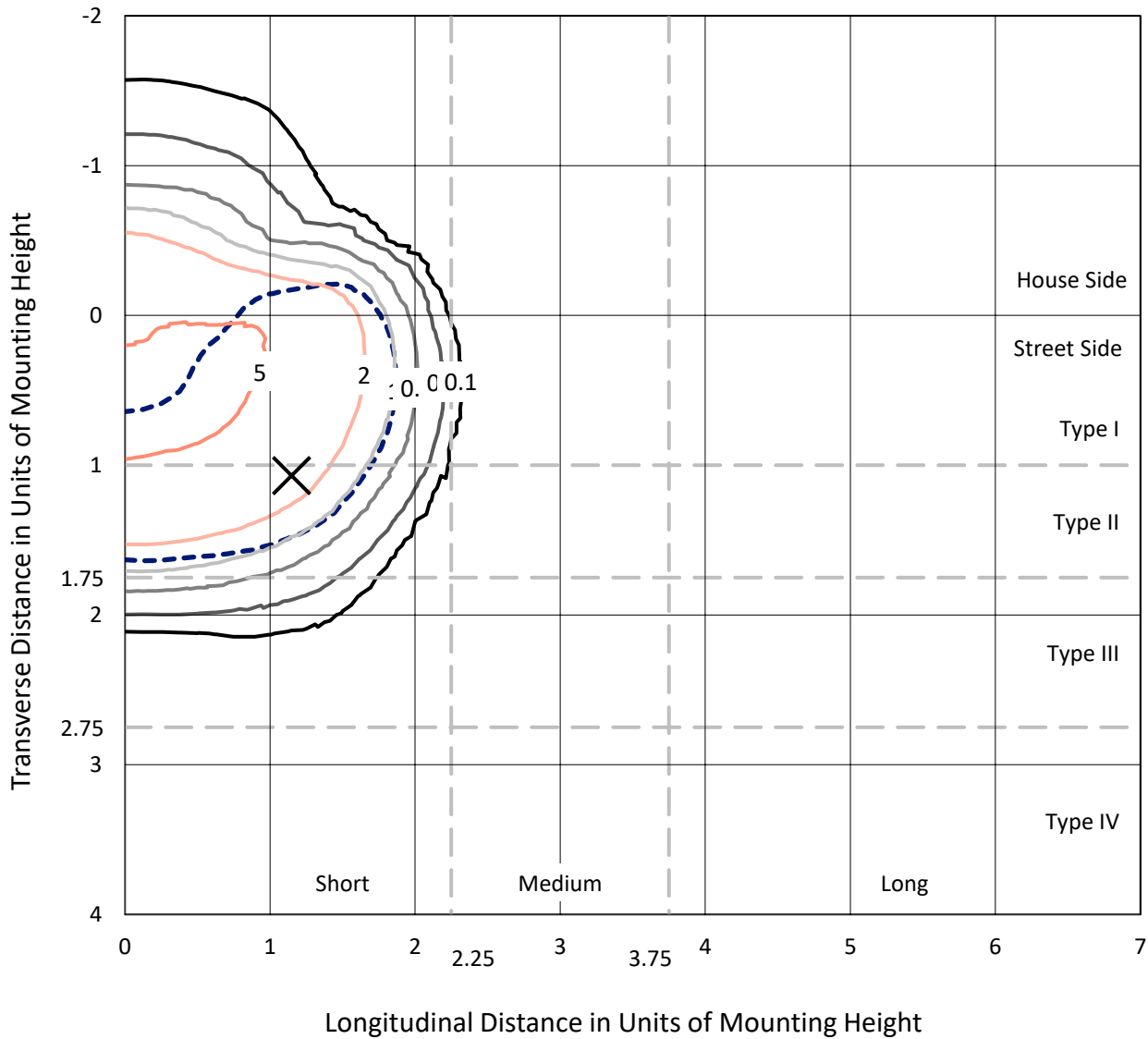
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

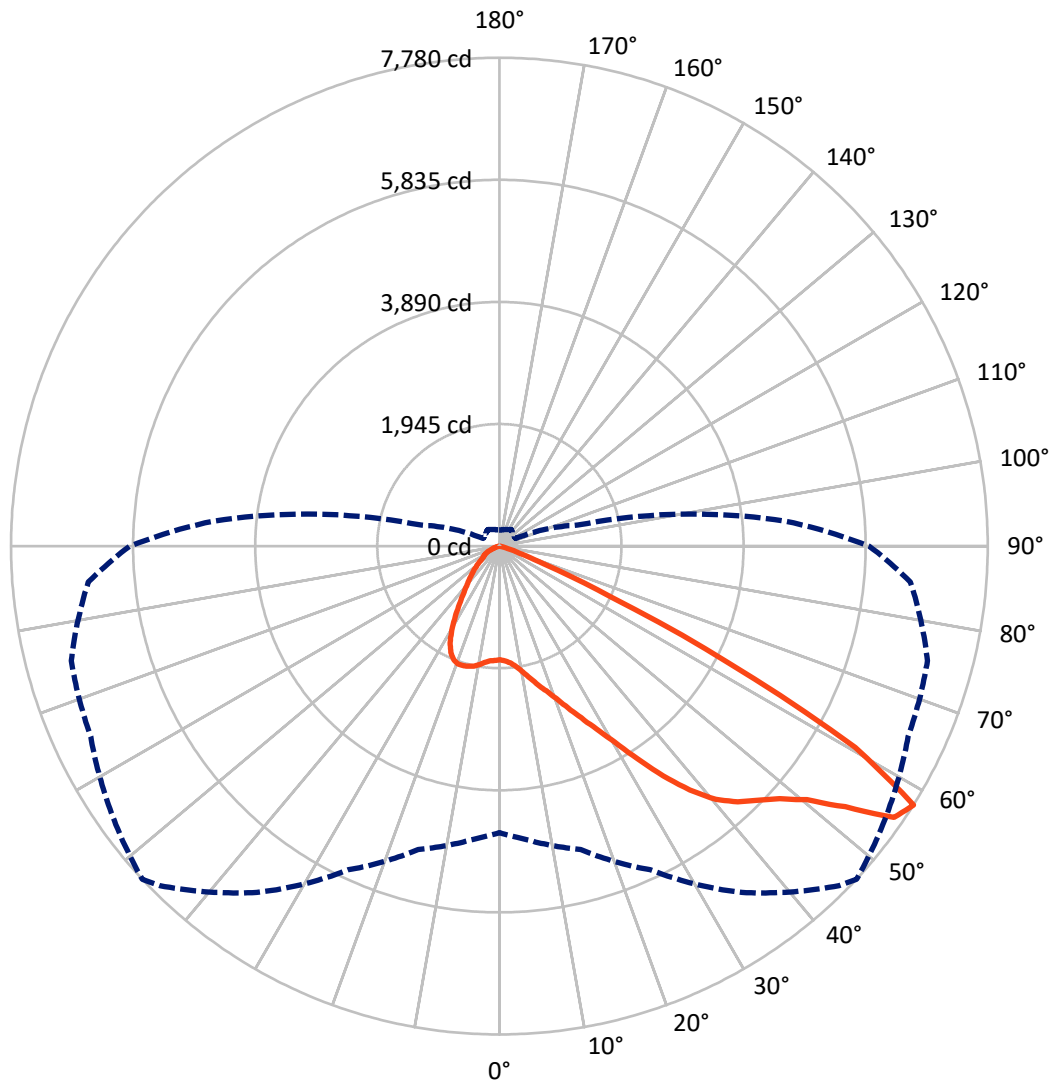
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2346.1	0.0	2346.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8468.1	0.0	8468.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	10814.2	0.0	10814.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	1.7
10°-20°	607.7	5.6
20°-30°	1128.4	10.4
30°-40°	1806.3	16.7
40°-50°	2640.4	24.4
50°-60°	3258.8	30.1
60°-70°	1088.9	10.1
70°-80°	101.5	0.9
80°-90°	2.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10814.2	100.0
0°-180°	10814.2	100.0

Coefficient of Utilization



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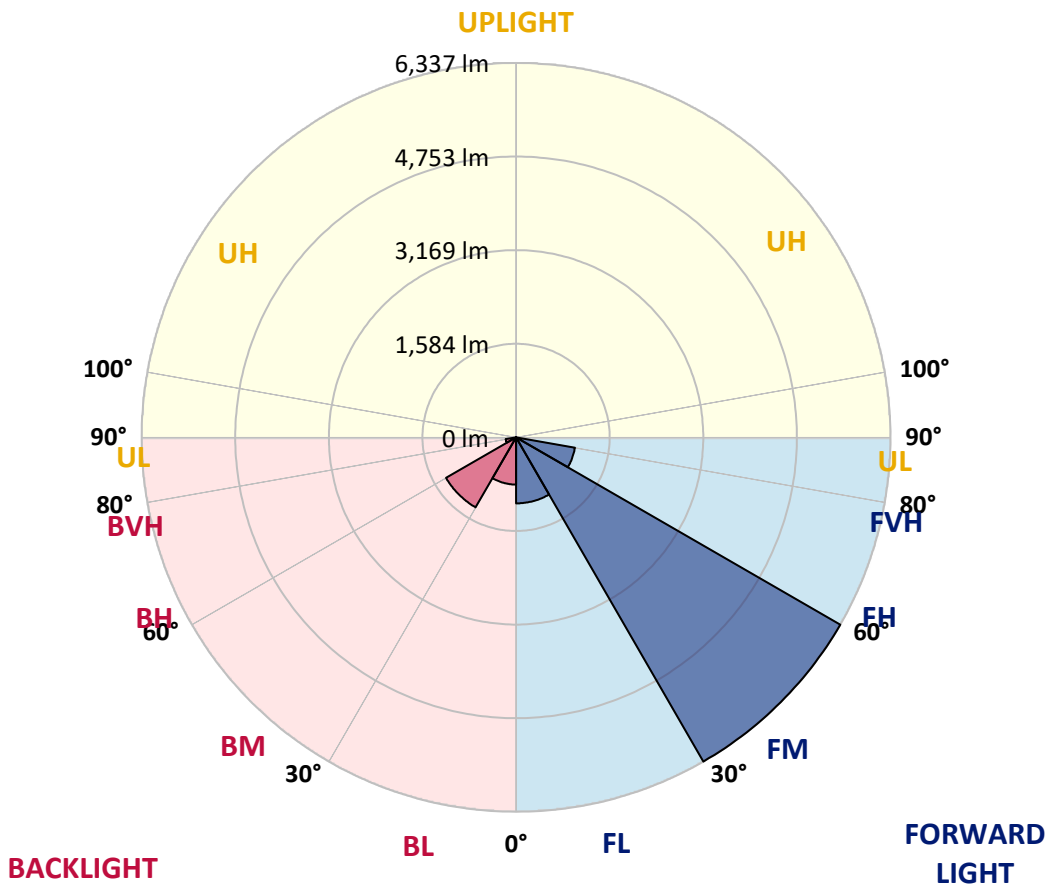
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1117.6	10.3			
FM (30°-60°)	6337.0	58.6			
FH (60°-80°)	1012.0	9.4			G1/1800
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	798.6	7.4	B2/1000		
BM (30°-60°)	1368.5	12.7	B2/2500		
BH (60°-80°)	178.4	1.6	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3
2.5°	1829.1	1827.9	1826.6	1834.2	1831.7	1830.4	1832.9	1832.9	1832.9	1825.4	1810.3
5°	1873.1	1873.1	1871.8	1879.4	1873.1	1869.3	1870.6	1870.6	1865.5	1851.7	1832.9
7.5°	1942.1	1939.6	1937.1	1944.6	1938.4	1937.1	1939.6	1932.1	1923.3	1900.7	1874.3
10°	2041.3	2041.3	2037.5	2045.1	2040.0	2037.5	2037.5	2032.5	2016.2	1981.0	1942.1
12.5°	2178.1	2171.9	2163.1	2156.8	2154.3	2153.0	2154.3	2146.8	2129.2	2084.0	2030.0
15°	2327.5	2322.5	2308.7	2298.7	2284.9	2282.3	2289.9	2283.6	2266.0	2204.5	2127.9
17.5°	2515.9	2522.1	2487.0	2465.6	2425.5	2423.0	2425.5	2435.5	2423.0	2343.9	2232.1
20°	2676.5	2681.6	2655.2	2640.1	2603.7	2587.4	2592.4	2608.8	2594.9	2502.0	2346.4
22.5°	2848.5	2854.8	2827.2	2795.8	2779.5	2779.5	2798.3	2820.9	2802.1	2680.3	2476.9
25°	3054.4	3059.4	3036.8	2995.4	2966.5	3003.0	3030.6	3090.8	3059.4	2893.7	2631.4
27.5°	3290.4	3291.7	3259.1	3216.4	3201.3	3269.1	3296.7	3389.6	3377.1	3133.5	2794.6
30°	3542.8	3544.0	3536.5	3507.6	3493.8	3583.0	3620.6	3754.9	3746.2	3431.0	3016.8
32.5°	3805.2	3805.2	3819.0	3816.5	3832.8	3978.4	4038.7	4191.8	4183.0	3795.1	3293.0
35°	4068.8	4070.1	4093.9	4154.2	4222.0	4415.3	4494.4	4680.2	4660.1	4230.7	3645.7
37.5°	4368.8	4356.3	4388.9	4479.3	4630.0	4853.4	4928.8	5105.8	5083.2	4676.4	4106.5
40°	4730.4	4707.8	4707.8	4813.3	4984.0	5241.4	5305.4	5393.3	5316.7	5036.7	4558.4
42.5°	5129.6	5108.3	5080.7	5173.6	5316.7	5517.5	5570.3	5546.4	5483.7	5376.9	5073.1
45°	5533.9	5501.2	5520.1	5576.6	5659.4	5754.8	5774.9	5664.4	5635.6	5665.7	5498.7
47.5°	5841.4	5818.8	5865.3	5944.4	6012.2	6026.0	6012.2	5859.0	5856.5	5963.2	5793.7
50°	5944.4	5946.9	6075.0	6248.2	6357.4	6368.7	6349.9	6174.1	6150.3	6181.7	5953.2
52.5°	5954.4	5964.5	6151.5	6481.7	6779.2	6914.8	6899.8	6710.2	6476.7	6442.8	6194.2
55°	5712.1	5771.1	6032.3	6514.3	7147.1	7580.2	7630.4	7267.6	6921.1	6892.2	6712.7
57.5°	4565.9	4686.5	5001.6	5688.3	6736.6	7649.2	7779.8	7518.7	7183.5	7060.5	6573.4
60°	2729.3	2878.7	3181.2	4023.6	5127.1	6287.1	6511.8	6548.2	6393.8	6038.5	5043.0
62.5°	1171.3	1158.7	1531.6	2176.9	3049.4	3996.0	4097.7	4255.9	4390.2	4018.6	3060.7
65°	401.7	436.9	607.6	981.7	1526.6	1855.5	1945.9	2087.8	2278.6	1880.6	1121.1
67.5°	248.6	263.6	350.3	580.0	823.6	811.0	770.8	748.2	728.1	498.4	307.6
70°	180.8	193.3	246.1	399.2	553.6	389.2	337.7	273.7	303.8	280.0	218.4
72.5°	121.8	131.8	169.5	242.3	283.7	189.6	175.8	199.6	241.0	229.7	178.3
75°	72.8	79.1	96.7	118.0	115.5	97.9	99.2	140.6	184.5	172.0	126.8
77.5°	50.2	52.7	64.0	76.6	56.5	30.1	27.6	38.9	62.8	62.8	42.7
80°	12.6	16.3	16.3	10.0	8.8	7.5	7.5	11.3	17.6	12.6	6.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	2.5	2.5
85°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	2.5
87.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3
2.5°	1819.1	1804.0	1814.1	1811.6	1819.1	1821.6	1810.3	1807.8	1809.1	1794.0	1789.0
5°	1836.7	1819.1	1824.1	1819.1	1827.9	1835.4	1831.7	1836.7	1842.9	1831.7	1826.6
7.5°	1874.3	1856.8	1855.5	1848.0	1860.5	1865.5	1864.3	1878.1	1890.7	1883.1	1875.6
10°	1939.6	1915.8	1913.3	1907.0	1910.7	1914.5	1900.7	1903.2	1914.5	1905.7	1902.0
12.5°	2020.0	1991.1	1984.8	1969.7	1969.7	1950.9	1920.8	1914.5	1923.3	1917.0	1910.7
15°	2106.6	2067.7	2057.6	2031.3	2006.2	1971.0	1939.6	1932.1	1938.4	1930.8	1925.8
17.5°	2203.3	2159.3	2126.7	2080.2	2025.0	1983.6	1948.4	1932.1	1922.0	1907.0	1905.7
20°	2298.7	2240.9	2185.7	2111.6	2038.8	1976.0	1918.3	1875.6	1839.2	1816.6	1807.8
22.5°	2409.1	2323.8	2234.6	2130.4	2026.2	1930.8	1829.1	1756.3	1693.6	1672.2	1662.2
25°	2527.2	2416.7	2283.6	2148.0	1983.6	1830.4	1692.3	1584.3	1501.5	1473.9	1462.6
27.5°	2657.7	2505.8	2333.8	2144.2	1895.7	1687.3	1504.0	1369.7	1288.1	1262.9	1271.7
30°	2823.4	2621.3	2396.6	2105.3	1763.9	1486.4	1271.7	1158.7	1097.2	1073.4	1074.6
32.5°	3044.4	2787.0	2488.2	2022.5	1594.4	1257.9	1069.6	986.8	945.3	913.9	911.4
35°	3360.7	3039.4	2573.6	1889.4	1388.5	1054.5	917.7	852.4	794.7	758.3	764.5
37.5°	3739.9	3357.0	2620.1	1709.9	1157.5	896.4	803.5	736.9	671.6	617.7	623.9
40°	4189.3	3772.5	2616.3	1473.9	946.6	788.4	708.1	630.2	548.6	499.7	504.7
42.5°	4690.2	4165.5	2534.7	1224.0	784.6	700.5	616.4	518.5	439.4	409.3	410.5
45°	5124.6	4484.3	2391.6	965.4	660.3	615.2	521.0	420.6	385.4	364.1	362.8
47.5°	5446.0	4717.9	2186.9	759.5	559.9	537.3	428.1	376.6	349.0	331.4	328.9
50°	5625.5	4799.5	1961.0	595.1	473.3	455.7	382.9	341.5	322.6	311.3	308.8
52.5°	5866.6	4897.4	1799.0	469.5	396.7	372.9	352.8	317.6	305.1	296.3	292.5
55°	6248.2	5086.9	1658.4	372.9	330.2	325.2	332.7	303.8	296.3	282.5	277.4
57.5°	5889.2	4569.7	1288.1	288.7	278.7	297.5	321.4	290.0	271.2	258.6	253.6
60°	4144.1	3038.1	647.8	232.3	248.6	278.7	302.6	262.4	243.6	246.1	243.6
62.5°	2284.9	1520.3	291.3	194.6	215.9	246.1	258.6	227.2	214.7	236.0	239.8
65°	747.0	517.2	168.2	150.6	170.7	200.9	223.5	215.9	213.4	238.5	246.1
67.5°	229.7	170.7	114.2	108.0	118.0	148.1	188.3	233.5	251.1	258.6	262.4
70°	172.0	134.3	97.9	91.6	96.7	113.0	159.4	194.6	183.3	184.5	182.0
72.5°	138.1	106.7	84.1	80.3	80.3	77.8	84.1	105.5	119.3	125.5	125.5
75°	96.7	75.3	64.0	59.0	46.5	37.7	33.9	33.9	30.1	28.9	27.6
77.5°	32.6	27.6	25.1	20.1	13.8	11.3	10.0	8.8	6.3	3.8	2.5
80°	5.0	3.8	2.5	2.5	2.5	1.3	1.3	1.3	0.0	0.0	0.0
82.5°	2.5	2.5	2.5	2.5	2.5	1.3	1.3	0.0	0.0	0.0	0.0
85°	2.5	2.5	2.5	2.5	2.5	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	1.3	1.3	1.3	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)